

CLAIMS

1. A catalyst for dimethyl carbonate synthesis, which is used for producing dimethyl carbonate from acetone dimethyl acetal and CO₂ in a supercritical state, 5 wherein the catalyst is obtained by loading a strong acid on a carrier composed of a compound having a solid state.

2. The catalyst for dimethyl carbonate synthesis according to claim 1, wherein the strong acid contains one 10 or more compounds selected from SO₄²⁻ or PO₄³⁻.

3. The catalyst for dimethyl carbonate synthesis according to claim 1, wherein the compound having a solid acid site is one or more selected from ZrO₂, Al₂O₃, and TiO₂.

15 4. The catalyst for dimethyl carbonate synthesis according to claim 2, wherein the compound having a solid acid site is one or more selected from ZrO₂, Al₂O₃, and TiO₂.

20 5. The catalyst for dimethyl carbonate synthesis according to claim 3, wherein the specific surface area of the carrier composed of one or more selected from ZrO₂, Al₂O₃, and TiO₂ is 40 to 200 m²/g.

25 6. The catalyst for dimethyl carbonate synthesis according to claim 4, wherein the specific surface area of the carrier composed of one or more selected from ZrO₂,

Al_2O_3 , and TiO_2 is 40 to 200 m^2/g .